

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/011216

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D21H17/72 D21H17/14 D21H21/14 D21H21/22 B01D1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 221 952 A (RANSBURG ELECTRO-COATING CORP) 10 February 1971 (1971-02-10) page 1, line 11 - page 3, line 26; figures 1,2; example 6	1,19
X	US 2 341 302 A (WILSON ERNEST S) 8 February 1944 (1944-02-08) page 1, column 2, line 25 - line 49; claims 1,2	1,5,19
X	US 2 401 090 A (MASHBURN ROBERT T) 28 May 1946 (1946-05-28) the whole document	1,2,5,19
X	EP 1 001 082 A (KAO CORP) 17 May 2000 (2000-05-17) the whole document, in particular paragraph 0017	1,3-5,19
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

29 October 2004

Date of mailing of the international search report

14. 01. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 016 755 A (KAO CORP) 5 July 2000 (2000-07-05) the whole document, in particular paragraph 0028	1,5,19
A	----- WO 98/33980 A (AKZO NOBEL NV ; FROELICH STEN (SE); LINDGREN ERIK (SE); SIKKAR REIN (S) 6 August 1998 (1998-08-06) page 8, line 12 - page 9, line 17; claim 17; example 3 -----	1,5,19

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 19

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,19

A powder composition for paper manufacturing; a method of producing a pulp sheet; use of the powder composition

2. claims: 6-10

A bulking agent for paper; a method of producing a bulk sheet

3. claims: 11-18

A paper manufacturing chemical agent particle; a method of producing a paper manufacturing chemical agent particle

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/011216

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1221952	A	10-02-1971	CH 476159 A DE 1611788 A1 FI 51607 B FR 1550035 A JP 51025502 B NO 131304 B SE 330827 B	31-07-1969 03-06-1971 01-11-1976 13-12-1968 31-07-1976 27-01-1975 30-11-1970
US 2341302	A	08-02-1944	NONE	
US 2401090	A	28-05-1946	NONE	
EP 1001082	A	17-05-2000	JP 2971447 B2 JP 11350380 A CA 2298683 A1 DE 69910716 D1 DE 69910716 T2 EP 1001082 A1 US 6599392 B1 DE 69917687 D1 EP 1247898 A1 ES 2207222 T3 WO 9963156 A1	08-11-1999 21-12-1999 09-12-1999 02-10-2003 17-06-2004 17-05-2000 29-07-2003 01-07-2004 09-10-2002 16-05-2004 09-12-1999
EP 1016755	A	05-07-2000	JP 3283246 B2 JP 2001055686 A CA 2293198 A1 EP 1016755 A2 ID 25442 A JP 3283248 B2 JP 2001081687 A	20-05-2002 27-02-2001 28-06-2000 05-07-2000 05-10-2000 20-05-2002 27-03-2001
WO 9833980	A	06-08-1998	AT 225435 T AU 729702 B2 AU 6010198 A BR 9807049 A CA 2280094 A1 CN 1117191 B DE 69808435 D1 DE 69808435 T2 DK 961855 T3 EP 0961855 A1 ES 2183325 T3 ID 25962 A JP 3400803 B2 JP 2000509430 T NO 993742 A NZ 336786 A PT 961855 T RU 2168579 C2 WO 9833980 A1 SK 102599 A3 US 6165259 A	15-10-2002 08-02-2001 25-08-1998 28-03-2000 06-08-1998 06-08-2003 07-11-2002 10-07-2003 20-01-2003 08-12-1999 16-03-2003 16-11-2000 28-04-2003 25-07-2000 29-09-1999 23-02-2001 31-01-2003 10-06-2001 06-08-1998 14-08-2000 26-12-2000